

Figure 1

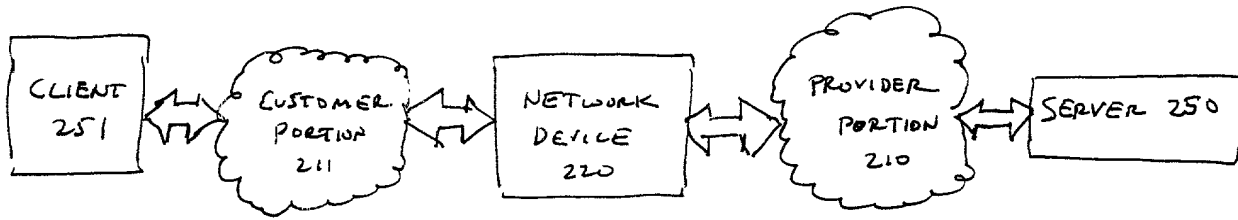


Figure 2

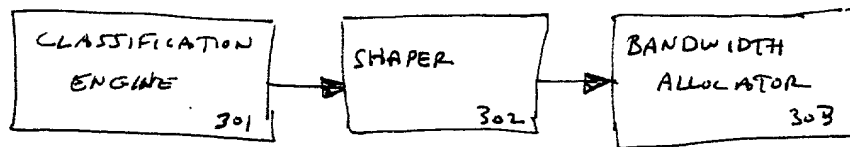


Figure 3

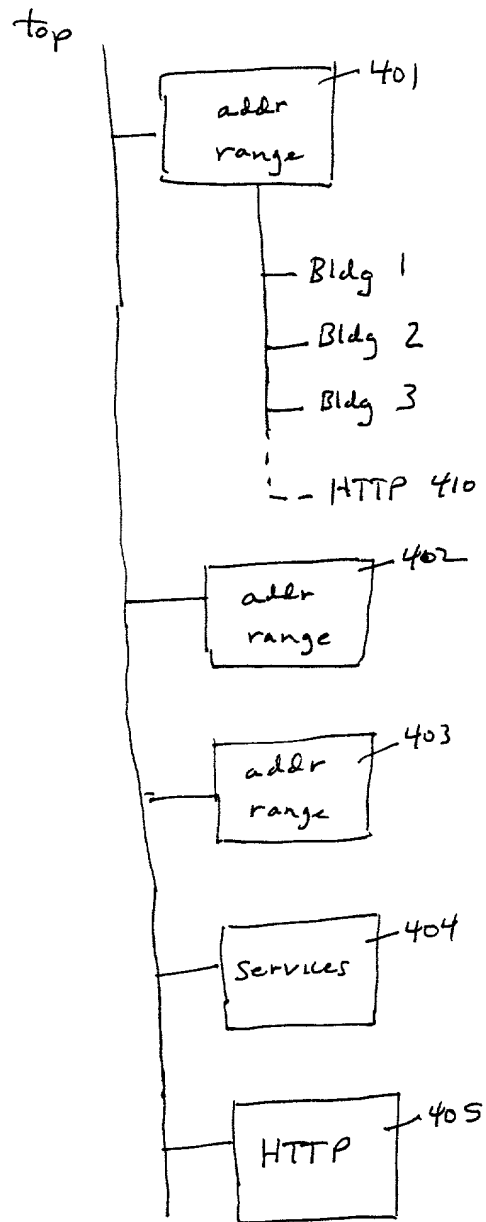


Figure 4

Classification Tree Example

TC-0
 TC-1 C1 ← start of C1 cacheables (address group)
 TC-2 C1
 TC-3 ← end of C1 cacheables
 TC-4 C2 ← start of C2 cacheables (protocol type group)
 TC-5 C2
 TC-6 C3 ← start of C3 cacheables, end of C2 cacheables, F1 hits TC-6
 TC-7 ← end of C3 cacheables (port matching group)
 DEFAULT

Figure 5

Case 1: First packet of Flow1 (F1) is classified as TC6.

	<u>Pass Number through the While Loop</u>						
<u>data</u>	1st	2nd	3rd	4th	5th	6th	7th
tclass	TC-0,1 TC-1,11	TC-2,11	TC-3,11	TC-4,11	TC-5,11	TC-6,11	
inCache	FALSE,2	TRUE,9	FALSE,12		TRUE,9		TRUE,9
cacheProc		C1,6			C2,6		C3,6
cacheEnd		TC-3,6			TC-6,6		TC-7,6
C1 add			F1,12 NF*				
C2 add						F1,12 NF*	
C3 add							F1,10 F*

*NF and F represent NOT FOUND and FOUND.

Figure 6

Case 2: Second packet of Flow1 (F1) is classified as TC6.

	<u>Pass Number through the While Loop</u>			
<u>data</u>	1st	2nd	3rd	4th
tclass	TC-0,1 TC-1,11	TC-3,8 TC-4,11	TC-6,8	TC-6,7
inCache	FALSE,2			
cacheProc		C1,6	C2,6	C3,6
cacheEnd		TC-3,6	TC-6,6	TC-7,6
C1 lookup		NOTFOUND, 6		
C2 lookup			NOTFOUND, 6	
C3 lookup				FOUND,6

Figure 7

FIG. 8

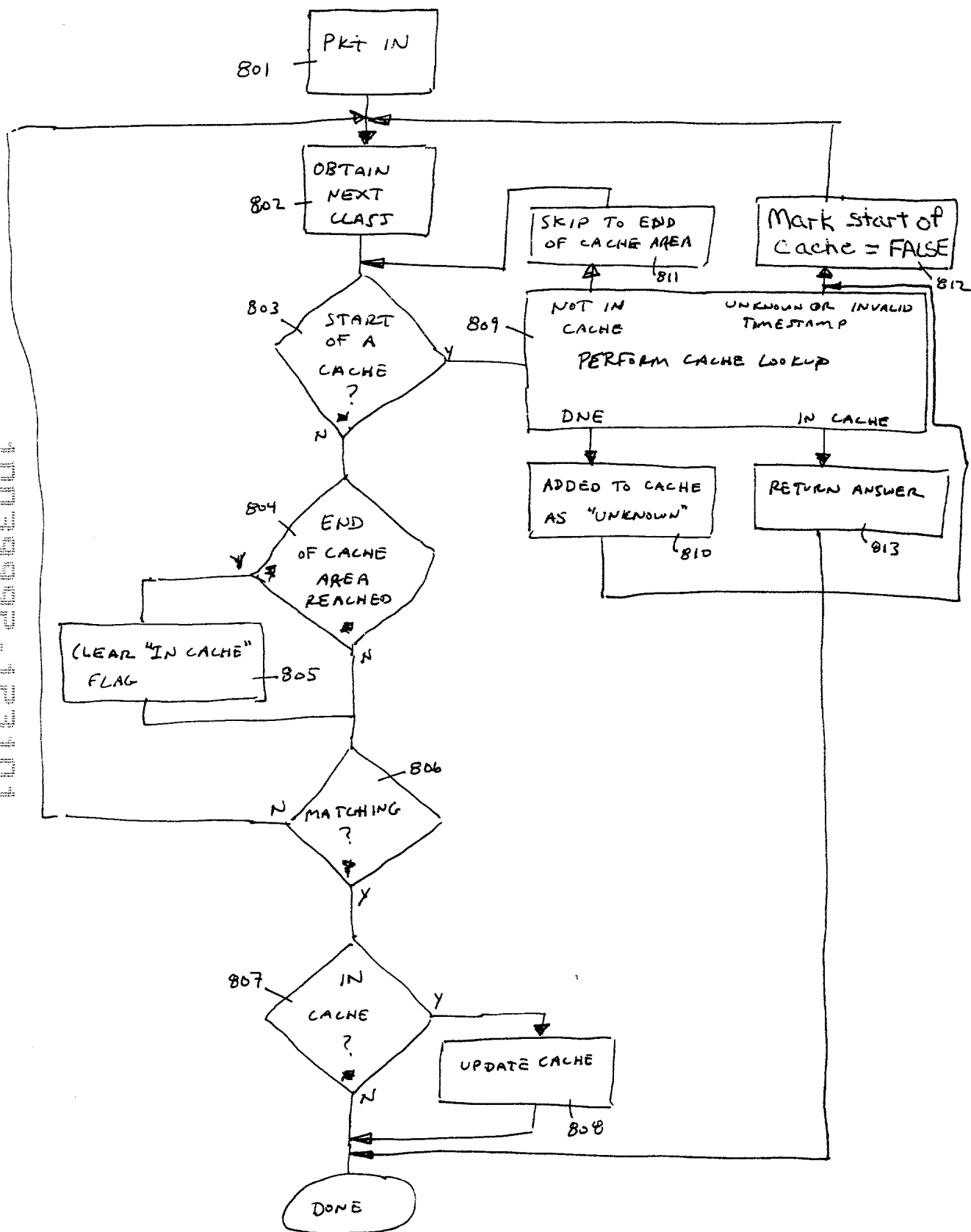


Figure 8